



Roy F. Weston, Inc.
4th Floor
67 Battery March Street
Boston, Massachusetts 02110-3206
617-204-2700 • Fax 617-204-2701

05 February 1997

Work Order No. 03886-118-002-0700-00

Mr. Maurice Beaudoin, Resident Engineer
Department of the Army
New England Division, Corps of Engineers
New Bedford Resident Office
103 Sawyer Street
New Bedford, MA 02746

Superfund Records Center

SITE: New Bedford

BREAK: 100

OTHER: 1. 2. 22.800

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN-NBH-020597-AAIQ

Subject: Quarterly Groundwater Sampling Results - Fourth Quarter 1996

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 19 and 20 December 1996. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, the total and dissolved concentrations of cadmium in MW-3 exceeded the cadmium U.S. EPA Maximum Contaminant Level (MCL) of 5.0 parts per billion (ppb). No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 19 and 20 December 1996 groundwater sampling results are attached.

During the groundwater sampling event on 19 and 20 December 1996, the depression area located east of the Confined Disposal Facility (CDF) was inundated with standing water to a maximum depth of approximately 2.0 feet. Monitoring wells MW-2 and MW-3 are located in this area, and the depth of standing water in the vicinity of these two wells was observed to be approximately 1.5 feet. Standing water in the vicinity of these wells may affect the natural, measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.





Mr. Maurice Beaudoin
U.S. Army Corps of Engineers

2

05 February 1997

Please call me at (617) 204-2700 if you have any questions regarding this Letter Report.

Very Truly Yours,

ROY F. WESTON, INC.

James S. Chow
Assistant Geoscientist II

cc: T. Abdella (WESTON)
L. Lemay [WESTON DCN File (2)]
M. Otis (CENED)
Project File (BMA)

Inter-Office Memorandum



TO: James Chow

FROM: Diane Quigley *pg*

DATE: 30 January 1997

PROJECT: New Bedford Harbor/Sawyer Street Site W.O. NO.: 03886-118-002-0700-00

SUBJECT: New Bedford Harbor/Sawyer Street Site
Data Validation

Data submitted by Lancaster Laboratories for quarterly groundwater samples 001-1296 through 007-1296, 101-1296 and 202-1296 was reviewed. These samples were collected on 12/19/96 and 12/20/96. Chain-of-custody documents were reviewed to verify holding times were met. Method blank and field blanks, surrogate recoveries, laboratory spike and matrix spike recoveries and duplicate sample results were reviewed. The following discrepancies were noted:

A. Metals

- 1) The percent RPD (76%) for lead did not meet criteria in unfiltered field duplicate samples 001-1296 and 101-1296. Both results should be estimated (J).
- 2) Lead recovery in the unfiltered MSD (126.4) was greater than the QC limits (80-120). Lead recovery in the filtered MS and MSD was greater than the QC limits.
- 3) Chromium and lead were detected in the unfiltered samples 001-1296 and 007-1296 but non-detected in the filtered samples.
- 4) Copper was detected in filtered sample 101-1296 but not in filtered duplicate sample 001-1296. Both results should be estimated (J) and (UJ).
- 5) Lead was detected at a higher level (.0093J) in unspiked filtered sample 004-1296 than in unspiked unfiltered sample 004-1296 (.0012J). Lead was not detected in the filtered or unfiltered duplicate samples 004-1296.
- 6) Lead was detected in filtered samples 002-1296 and 003-1296 but not in unfiltered samples 002-1296 and 003-1296.
- 7) No target compounds were detected in the unfiltered or filtered rinsate or method blanks.

**LLI Sample No. ww 2638015**

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE
001-- SDG#: NBH16-02

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | 0.0074 J | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0049 | 0.0012 | mg/l |
| 0173 | PCBs in Water | | 1. | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
07:59:22 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2320 South 10th Street
P.O. Box 1010
Lancaster, PA 17604-1010
TEL: 717-656-2300 FAX: 717-656-2301

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. ww 2638015**

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE
001-- SDG#: NBH16-02

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|---------------------------|-------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
3425 Valley Forge Road
PO Box 124128
Lancaster, PA 17606-0428
717-656-2300 Fax 717-656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





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A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638015

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96

001-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

001-- SDG#: NBH16-02

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0207 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0207 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0207 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1404 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1433 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**LLI Sample No. ww 2638024**

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

003-- SDG#: NBH16-08

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|----------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | 0.0054 J | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | 0.052 | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. <i>JS</i> | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:00:57 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2405 New England Pkwy
PO Box 12425
Lancaster, PA 17605-2425
TEL: 717-656-2300 FAX: 717-656-2301

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates




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Page: 2 of 3

LLI Sample No. WW 2638024

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

003-- SDG#: NBH16-08

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

AS RECEIVED

CAT

NO. ANALYSIS NAME

RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

| | | | | |
|------|----------|---------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | 0.100 J | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2400 New Bedford Road
PO Box 10425
Lancaster, MA 01608-0425
Tel: 781-337-1100 Fax: 781-337-1101

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2016-06-01 10:00:00





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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638024

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96

003-1296 Grab Water Sample

New Bedford Harbor, MA - USACE
003-- SDG#: NBH16-08

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0229 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0229 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0229 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0841 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1747 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |

MEMBER
ACIL

Lancaster Laboratories
1000 State Street
PO Box 10125
Boston, MA 02116-0125
Tel: 617-237-1100 Fax: 617-237-1101

See back of report for explanation of symbols and abbreviations

12/25/96 14:30:00





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Page: 1 of 3

LLI Sample No. ww 2638019

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE
004-- SDG#: NBH16-06BKG

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | METHOD | DETECTION LIMIT | UNITS |
|------------|-----------------------|-------------|--------|----------|-----------------|-------|
| | | RESULTS | | | | |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l | | |
| 1751 | Chromium | N.D. | 0.0043 | mg/l | | |
| 1753 | Copper | N.D. | 0.0038 | mg/l | | |
| 1055 | Lead (furnace method) | 0.0012 J | 0.0012 | mg/l | | |
| 0173 | PCBs in Water | | 1. | See Page | 2 | |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:00:05 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
1405 Newbury Road
PO Box 1042
Lancaster PA 17604-0104
TEL: 717-656-2300 FAX: 717-656-2301

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. ww 2638019**

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE
004-- SDG#: NBH16-06BKG

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

CAT

NO. ANALYSIS NAME

AS RECEIVED

METHOD
RESULTS DETECTION LIMIT UNITS

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2428 New Holland Pike
PO Box 12435
Lancaster, PA 17609-0435
717 656-2300 FAX 717 656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638019

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Unspiked Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06BKG

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0145 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0145 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0145 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1259 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/30/96 1045 | Jenifer Hess |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



Lancaster Laboratories
2400 West Main Street
PO Box 110125
Jacksonville, FL 32211-0125
904/750-1100 FAX 904/750-1101
WWW.LANCASTERLABS.COM

ANALYST: JCH, JCH, JCH, JCH, JCH, JCH, JCH, JCH, JCH, JCH

2005-04-01 14:00





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Page: 1 of 3

LLI Sample No. WW 2638021

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE
004-- SDG#: NBH16-06MS

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Re1. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | 0.050 | 0.0027 | mg/l |
| 1751 | Chromium | 0.197 | 0.0043 | mg/l |
| 1753 | Copper | 0.250 | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0224 | 0.0012 | mg/l |
| 0173 | PCBs in Water | | | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
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1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:00:23 D 0003 12 123814 547122
232 0.00 00010504 ASR000



US Water Laboratory
Lancaster Laboratories
PO Box 10428
Wilmington, DE 19805-1428
TEL: (610) 676-7777 FAX: (610) 676-7777

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. WW 2638021**

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MS

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|--------|-----------------------|
| | | RESULTS | METHOD | DETECTION LIMIT UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | 5.5 | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | 5.7 | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2000 Lancaster Road
P.O. Box 100
Lancaster, MA 01503
Tel: (717) 656-2300
Fax: (717) 656-2301

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0215 Rev. 6-01-97





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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638021

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

004-1296 Matrix Spike Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MS

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0155 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0155 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0155 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1321 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/30/96 1124 | Jenifer Hess |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



Lancaster Laboratories
2425 New Bedford Ave
PO Box 11433
Lancaster MA 01904-0433
617-552-1100 FAX 617-552-1101

See back for detailed instructions and approvals.

2016 Rev. 8/21/96





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Page: 1 of 3

LLI Sample No. WW 2638022

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MSD

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | 0.050 | 0.0027 | mg/l |
| 1751 | Chromium | 0.198 | 0.0043 | mg/l |
| 1753 | Copper | 0.250 | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0265 | 0.0012 | mg/l |
| 0173 | PCBs in Water | | | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
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ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:00:35 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2125 Newbury Avenue
PO Box 10428
Lancaster PA 17603-0428
717-656-2300 Fax 717-656-2381

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638022

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MSD

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
ReI. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|---------------------------|-------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | 5.4 | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | 6.1 | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
200 New Bedford Rd.
P.O. Box 12435
Lancaster, MA 01503-0435
Phone: (717) 656-2300
Fax: (717) 656-2301

See report for details and full analytical data.

2016 Rev. 6.1.1





LLI Sample No. **WW 2638022**

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

004-1296 Matrix Spike Duplicate Grab Water Sample

New Bedford Harbor, MA - USACE

004-- SDG#: NBH16-06MSD

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0158 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0158 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0158 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1332 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 0848 | Jenifer Hess |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**LLI Sample No. WW 2638023**

Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

005-1296 Grab Water Sample

New Bedford Harbor, MA - USACE
005-- SDG#: NBH16-07

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|-------------|---------------------------|-------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. See Page | 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:00:47 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2425 New Bedford Ave.
PO Box 10426
Lancaster, MA 01701-0426
781-656-2300 FAX 781-656-2301

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



A division of Thermo Analytical Inc.



LLI Sample No. WW 2638023

Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96

005-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

005-- SDG#: NBH16-07

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0226 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0226 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0226 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0830 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1708 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



Lancaster Laboratories
1403 New Holland Pike
PO Box 12425
Lancaster PA 17605-0425
717-540-1111 FAX 717-540-2871



**LLI Sample No. WW 2638017**

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

006-- SDG#: NBH16-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0012 | mg/l |
| 0173 | PCBs in Water | | 1. | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
07:59:45 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2400 Newbury Drive
PO Box 12428
Lancaster, PA 17605-2428
TEL: 656-2300 Fax: 717-656-2441

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638017

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/13/97
Discard: 2/13/97

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE
006-- SDG#: NBH16-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|--------|-----------------------|
| | | RESULTS | METHOD | DETECTION LIMIT UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 Newbury Lane
PO Box 13403
Lancaster, PA 17601-0425
TEL 656-2300 FAX 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



**LLI Sample No. ww 2638017**

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96

006-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

006-- SDG#: NBH16-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|--------|-------------------------------|--------------|-------|------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0220 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0220 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0220 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1425 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1551 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



Lancaster Laboratories
2625 New Bedford Rd
PO Box 12425
Lancaster MA 01605-2425
Tel: 603-239-0700 Fax: 603-239-0701



**LLI Sample No. WW 2638016**

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

101-- SDG#: NBH16-03

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0022 J | 0.0012 | mg/l |
| 0173 | PCBs in Water | | 1. | See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
07:59:35 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
2110 Plymouth Road
PO Box 12-25
Lancaster, MA 01763-0425
TEL: 781-210-1100 FAX: 781-210-1101

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





LLI Sample No. ww 2638016

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

101-- SDG#: NBH16-03

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

CAT

NO. ANALYSIS NAME

RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
1301 Thermo Drive
PO Box 1010
Westborough, MA 01581
(717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





Lancaster Laboratories
A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638016

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96

101-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

101-- SDG#: NBH16-03

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0217 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0217 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0217 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1415 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1512 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



Lancaster Laboratories
1400 New Bedford Pike
PO Box 12425
New Bedford, MA 01905-0425
TEL: 508/435-1111 FAX: 508/435-0431

Analysis Report generated by LLI software and approved by:

0216 Rev. 5/01/97





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. ww 2638025

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

002-- SDG#: NBH16-09*

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | |
|------------|--|---------------|---------------------------------|
| | | RESULTS | METHOD DETECTION LIMIT UNITS |
| 1749 | Cadmium | N.D. | 0.0027 mg/l |
| 1751 | Chromium | N.D. | 0.0043 mg/l |
| 1753 | Copper | N.D. | 0.0038 mg/l |
| 1055 | Lead (furnace method) | N.D. <i>u</i> | 0.0060 mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | |
| 0173 | PCBs in Water | | 1. See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:01:08 D 0003 12 123814 547122
232 0.00 00010504 ASR000



Lancaster Laboratories
1400 North 10th Street
PO Box 12425
Lancaster, PA 17602-0425
TEL: 717-656-2300 FAX: 717-656-2301

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. WW 2638025**

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

002-- SDG#: NBH16-09*

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|--------|-----------------------|
| | | RESULTS | METHOD | DETECTION LIMIT UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2400 Newbury Street
PO Box 12400
Lancaster PA 17606-0400
717-656-2300 FAX 717-656-2301



**LLI Sample No. WW 2638025**

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96

002-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

002-- SDG#: NBH16-09*

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0232 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0232 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0232 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0852 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1826 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**LLI Sample No. WW 2638018**

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | |
|------------|-----------------------|-------------|---------------------------------|
| | | RESULTS | METHOD DETECTION LIMIT UNITS |
| 1749 | Cadmium | N.D. | 0.0027 mg/l |
| 1751 | Chromium | N.D. | 0.0043 mg/l |
| 1753 | Copper | N.D. | 0.0038 mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0012 mg/l |
| 0173 | PCBs in Water | | 1. See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
07:59:55 D 0003 12 123814 547122
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



Lancaster Laboratories
2005 North Main Street
PO Box 12488
Lancaster, MA 01703-0488
Tel: (717) 656-2300
Fax: (717) 656-2301





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638018

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD | DETECTION LIMIT | UNITS |
|------------|---------------|---------|--------|-----------------|-------|
|------------|---------------|---------|--------|-----------------|-------|

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2000 University Avenue
Boston, MA 02126
Tel: (617) 656-2300
Fax: (617) 656-2301

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



**LLI Sample No. WW 2638018**

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96

202-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

202-- SDG#: NBH16-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0223 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0223 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0223 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1436 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1629 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. ww 2638014

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

007-- SDG#: NBH16-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | |
|------------|-----------------------|-------------|---------------------------------|
| | | RESULTS | METHOD DETECTION LIMIT UNITS |
| 1749 | Cadmium | N.D. | 0.0027 mg/l |
| 1751 | Chromium | 0.0079 J | 0.0043 mg/l |
| 1753 | Copper | N.D. | 0.0038 mg/l |
| 1055 | Lead (furnace method) | 0.0034 | 0.0012 mg/l |
| 0173 | PCBs in Water | | 1. See Page 2 |

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
07:59:09 D 0003 12 123814 547122
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

MEMBER
ACIL

Lancaster Laboratories
1400 N. 10th Street
PO Box 10123
Lancaster, PA 17601-0123
(717) 656-2300 Fax (717) 656-2301

See reverse side for additional information and approvals

2016 Rev 5.0 1/9



**LLI Sample No. WW 2638014**

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/13/97

Discard: 2/13/97

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

007-- SDG#: NBH16-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | METHOD | | |
|------------|---------------|---------|-----------------|-------|
| | | RESULTS | DETECTION LIMIT | UNITS |

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300



Lancaster Laboratories
2425 New England Pkwy
PO Box 12425
Lancaster, PA 17605-2425
(717) 656-2300 Fax (717) 656-1661

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



**LLI Sample No. WW 2638014**

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96

007-1296 Grab Water Sample

New Bedford Harbor, MA - USACE

007-- SDG#: NBH16-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/03/97 0204 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0204 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0204 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1346 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1343 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 1354 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. WW 2638066

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-001 SDG#: NBH17-02

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|---|----------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. <i>US</i> | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. <i>US</i> | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:02:27 D 0003 12 123814 547129
232 0.00 00010504 ASR000



Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. WW 2638066**

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-001 SDG#: NBH17-02

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Re1. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|---------------------------|-------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



**LLI Sample No. WW 2638066**

Collected: 12/19/96 at 10:30 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

001-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-001 SDG#: NBH17-02

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0303 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0418 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0418 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0956 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0054 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**LLI Sample No. WW 2638067**

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-101 SDG#: NBH17-03

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|---|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | 0.0090 J | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:02:37 D 0003 12 123814 547129
232 0.00 00010504 ASR000



Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638067

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-101 SDG#: NBH17-03

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|---------------|---------------|-------------|---------------------------|-------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Environmental
Analytical
Laboratory
1000
Lancaster, MA 01503
(717) 656-2300
Fax: (717) 656-2301
E-mail: jehess@lll.com

Environmental Analytical Laboratory, Lancaster, MA 01503

Environmental Analytical Laboratory





Lancaster Laboratories
A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638067

Collected: 12/19/96 at 11:00 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

101-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-101 SDG#: NBH17-03

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0307 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0429 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0429 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 1007 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0133 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**LLI Sample No. WW 2638076**

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-002 SDG#: NBH17-09*

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0084 J | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:04:04 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



**LLI Sample No. WW 2638076**

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-002 SDG#: NBH17-09*

| |
|------------------------|
| Account No: 08947 |
| Roy F. Weston, Inc. |
| Bldg. 3701 Barnum Road |
| Devons MA 01433 |

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD | DETECTION LIMIT | UNITS |
|---------|---------------|---------|--------|-----------------|-------|
|---------|---------------|---------|--------|-----------------|-------|

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



ACIL
ANALYTICAL CHEMICALS
INCORPORATED
1000 N. 10TH ST.
P.O. BOX 1000
LANSING, MI 48206-1000
(313) 487-1000





LLI Sample No. WW 2638076

Collected: 12/19/96 at 14:00 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

002-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-002 SDG#: NBH17-09*

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0331 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0446 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0446 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 1049 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0447 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





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A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. WW 2638069

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-202 SDG#: NBH17-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0012 | mg/l |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:02:57 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

MEMBER
ACIL





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638069

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-202 SDG#: NBH17-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Ref. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD DETECTION LIMIT | UNITS |
|------------|---------------|---------|---------------------------|-------|
|------------|---------------|---------|---------------------------|-------|

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





Lancaster Laboratories
A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638069

Collected: 12/19/96 at 12:00 by JC

Submitted: 12/23/96

202-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-202 SDG#: NBH17-05

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0313 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0435 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0435 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1717 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0250 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



**Lancaster Laboratories***A division of Thermo Analytical Inc.*

Page: 1 of 3

LLI Sample No. WW 2638075

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-003 SDG#: NBH17-08Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | 0.0043 J | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | 0.0230 J | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0062 J | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package GroupATTN: Mr. Bryce Fletcher
ATTN: Mr. James ChowQuestions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:03:54 D 0003 12 123814 547129
232 0.00 00010504 ASR000Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

**LLI Sample No. WW 2638075**

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-003 SDG#: NBH17-08

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| | | AS RECEIVED | | |
|---------------|---------------|-------------|-----------------|-------|
| CAT | | | METHOD | |
| NO. | ANALYSIS NAME | RESULTS | DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



**LLI Sample No. WW 2638075**

Collected: 12/19/96 at 14:30 by JC

Submitted: 12/23/96

Account No: 08947
 Roy F. Weston, Inc.
 Bldg. 3701 Barnum Road
 Devons MA 01433

003-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
 F-003 SDG#: NBH17-08

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0327 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0442 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0442 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 1039 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0408 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





LLI Sample No. WW 2638070

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06BKG

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.0093 J | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:03:07 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638070

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06BKG

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD DETECTION LIMIT | UNITS |
|------------|---------------|---------|---------------------------|-------|
|------------|---------------|---------|---------------------------|-------|

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
ACIL





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A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638070

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

004-1296 Unspiked Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06BKG

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/10/97 2248 | Tara L. Linville |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0354 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0354 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| | | | 2 | 01/09/97 1245 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0903 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/06/97 2202 | Michael Kielb |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |



A division of Thermo Analytical Inc.

MEMBER
ACIL

**LLI Sample No. WW 2638072**

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Matrix Spike Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MS

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD | DETECTION LIMIT | UNITS |
|---------|---------------|---------|--------|-----------------|-------|
|---------|---------------|---------|--------|-----------------|-------|

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | 4.4 | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | 4.8 | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





Lancaster Laboratories
A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638072

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

004-1296 Matrix Spike Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-004 SDG#: NBH17-06MS

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0253 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0405 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0405 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0935 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/06/97 2044 | Michael Kielb |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





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Page: 1 of 3

LLI Sample No. WW 2638073

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

004-1296 Matrix Spike Duplicate Filtered Grab
Water Sample
New Bedford Harbor, MA - USACE
F-004 SDG#: NBH17-06MSD

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Re1. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|--|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | 0.048 | 0.0027 | mg/l |
| 1751 | Chromium | 0.185 | 0.0043 | mg/l |
| 1753 | Copper | 0.223 | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | 0.043 | 0.0060 | mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | | |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:03:35 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

MEMBER
ACIL





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638073

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

004-1296 Matrix Spike Duplicate Filtered Grab

Water Sample

New Bedford Harbor, MA - USACE

F-004 SDG#: NBH17-06MSD

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT NO. | ANALYSIS NAME | RESULTS | METHOD DETECTION LIMIT UNITS |
|------------|---------------|---------|---------------------------------|
|------------|---------------|---------|---------------------------------|

PCBs in Water

| | | | |
|------|----------|------|------------|
| 0639 | PCB-1016 | 4.3 | 0.054 ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 ug/l |
| 0645 | PCB-1260 | 4.4 | 0.045 ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



ANALYTICAL
LABORATORIES
A DIVISION OF
THERMO ANALYTICAL INC.
11100 ROCKHILL AVENUE
ROCKFORD, ILL. 61089-1000
(717) 656-2300

Environmental Sciences Division, Environmental Sciences Department

12/20/96 10:00 AM





Lancaster Laboratories
A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638073

Collected: 12/20/96 at 09:30 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

004-1296 Matrix Spike Duplicate Filtered Grab
Water Sample
New Bedford Harbor, MA - USACE
F-004 SDG#: NBH17-06MSD

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0256 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0408 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0408 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 0945 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/06/97 2123 | Michael Kielb |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





LLI Sample No. WW 2638074

Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-005 SDG#: NBH17-07

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | |
|------------|-----------------------|-------------|---------------------------|------------|
| | | RESULTS | METHOD DETECTION LIMIT | UNITS |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l |
| 1751 | Chromium | N.D. | 0.0043 | mg/l |
| 1753 | Copper | N.D. | 0.0038 | mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0012 | mg/l |
| 0173 | PCBs in Water | | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:03:44 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638074

Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-005 SDG#: NBH17-07

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Re1. 03886-118-002

| | | AS RECEIVED | | |
|---------------|---------------|-------------|-----------------|-------|
| CAT | | | METHOD | |
| NO. | ANALYSIS NAME | RESULTS | DETECTION LIMIT | UNITS |
| PCBs in Water | | | | |
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





LLI Sample No. WW 2638074

Collected: 12/20/96 at 14:00 by JC

Submitted: 12/23/96

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

005-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-005 SDG#: NBH17-07

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0324 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0439 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0439 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1728 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/06/97 2241 | Michael Kielb |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |

**LLI Sample No. WW 2638068**

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-006 SDG#: NBH17-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | |
|------------|--|-------------|---------------------------------|
| | | RESULTS | METHOD DETECTION LIMIT UNITS |
| 1749 | Cadmium | N.D. | 0.0027 mg/l |
| 1751 | Chromium | N.D. | 0.0043 mg/l |
| 1753 | Copper | N.D. | 0.0038 mg/l |
| 1055 | Lead (furnace method) | N.D. | 0.0060 mg/l |
| | The quantitation limit for lead was increased due to the nature of the sample matrix. | | |
| 0173 | PCBs in Water | 1. | See Page 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:02:46 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638068

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE

F-006 SDG#: NBH17-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

| CAT | | | | |
|-----|---------------|---------|--------|-----------------------|
| NO. | ANALYSIS NAME | RESULTS | METHOD | DETECTION LIMIT UNITS |

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





LLI Sample No. WW 2638068

Collected: 12/19/96 at 11:30 by JC

Submitted: 12/23/96

006-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-006 SDG#: NBH17-04

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|----------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0310 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0432 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0432 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/09/97 1028 | Brenda L. Buckwalter |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 01/01/97 0212 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





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A division of Thermo Analytical Inc.

Page: 1 of 3

LLI Sample No. WW 2638065

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/14/97
Discard: 2/14/97

007-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-007 SDG#: NBH17-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

| CAT NO. | ANALYSIS NAME | AS RECEIVED | | METHOD | DETECTION LIMIT UNITS |
|------------|-----------------------|-------------|--------|----------|-----------------------|
| | | RESULTS | | | |
| 1749 | Cadmium | N.D. | 0.0027 | mg/l | |
| 1751 | Chromium | N.D. | 0.0043 | mg/l | |
| 1753 | Copper | N.D. | 0.0038 | mg/l | |
| 1055 | Lead (furnace method) | N.D. | 0.0012 | mg/l | |
| 0173 | PCBs in Water | | 1. | See Page | 2 |

This sample was field filtered for dissolved metals and PCBs.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. Bryce Fletcher
ATTN: Mr. James Chow

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300
08:02:10 D 0003 12 123814 547129
232 0.00 00010504 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 2 of 3

LLI Sample No. WW 2638065

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96 Reported: 1/14/97

Discard: 2/14/97

007-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-007 SDG#: NBH17-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

CAT

NO. ANALYSIS NAME

RESULTS METHOD
DETECTION LIMIT UNITS

PCBs in Water

| | | | | |
|------|----------|------|-------|------|
| 0639 | PCB-1016 | N.D. | 0.054 | ug/l |
| 0640 | PCB-1221 | N.D. | 0.15 | ug/l |
| 0641 | PCB-1232 | N.D. | 0.060 | ug/l |
| 0642 | PCB-1242 | N.D. | 0.13 | ug/l |
| 0643 | PCB-1248 | N.D. | 0.048 | ug/l |
| 0644 | PCB-1254 | N.D. | 0.18 | ug/l |
| 0645 | PCB-1260 | N.D. | 0.045 | ug/l |

Due to insufficient sample size, we were unable to report our usual quantitation limits. The values reported represent the lowest quantitation limits obtainable.

Questions? Contact your Client Services Representative
F. Bradley Ayars at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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LABORATORY CHRONICLE

Page: 3 of 3

LLI Sample No. WW 2638065

Collected: 12/19/96 at 09:35 by JC

Submitted: 12/23/96

007-1296 Filtered Grab Water Sample

New Bedford Harbor, MA - USACE
F-007 SDG#: NBH17-01

Account No: 08947
Roy F. Weston, Inc.
Bldg. 3701 Barnum Road
Devons MA 01433

| CAT NO | ANALYSIS NAME | METHOD | TRIAL | ANALYSIS DATE AND TIME | ANALYST |
|-----------|-------------------------------|--------------|-------|---------------------------|------------------------|
| 1749 | Cadmium | SW-846 6010A | 1 | 01/09/97 0300 | Donna R. Sackett |
| 1751 | Chromium | SW-846 6010A | 1 | 01/03/97 0415 | Donna R. Sackett |
| 1753 | Copper | SW-846 6010A | 1 | 01/03/97 0415 | Donna R. Sackett |
| 1848 | WW SW846 ICP Digest (tot rec) | SW-846 3005A | 1 | 01/02/97 1349 | Christine M. Conlin |
| 1055 | Lead (furnace method) | SW-846 7421 | 1 | 01/07/97 1623 | Elizabeth A. Tomlinson |
| 5704 | WW/TL SW 846 GFAA Digest tot | SW-846 3020A | 1 | 01/04/97 0903 | Jennifer Garrett |
| 0173 | PCBs in Water | SW-846 8081 | 1 | 12/31/96 2258 | Donna M. Lewis |
| 0817 | Water Sample Pest. Extraction | SW-846 3510B | 1 | 12/24/96 0700 | Lisa J. Cooke |





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FAX 603-228-3440
223-3530
X 3230

TO: Maurice Beaudoin

Recipient's Telecopy Telephone # 508-990-2721

Recipient's Telephone # _____

FROM: Pam Hookins

603-223-3546
Originator's Telephone # _____

TOTAL PAGES: 2 (incl. cover sheet)

DATE: 7/9/96

W.O. #: 03886-118-002-2090-00

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RESULTS OF ROUND 4 WATER SAMPLING AT CDF 2 SAWYER STREET SITE

June 11, 1996

| Compound/Analyte | Daily Maximum (ug/L) | Monthly Average (ug/L) | Method Detection Limit (ug/L) | CDF-2 (ug/L) | |
|------------------------|-------------------------|---------------------------|----------------------------------|--------------|------------|
| | | | | Filtered | Unfiltered |
| PCBs | | | | | |
| Arochlor 1016 | N/A | N/A | 0.086 | ND | ND |
| Arochlor 1221 | N/A | N/A | 0.16 | ND | ND |
| Arochlor 1232 | N/A | N/A | 0.094 | ND | ND |
| Arochlor 1242 | N/A | N/A | 0.048 | ND | ND |
| Arochlor 1248 | N/A | N/A | 0.065 | ND | ND |
| Arochlor 1254 | N/A | N/A | 0.06 | 0.576J | |
| Arochlor 1260 | N/A | N/A | 0.07 | ND | ND |
| Total | 1.3 | 0.71 | | 0.576J | |
| Total Suspended Solids | N/A | N/A | 3,000 | ND | ND |
| Cadmium | 10.7 | 6 | 2.7 | ND | ND |
| Chromium | 12.8 | 7.1 | 4.3 | ND | ND |
| Copper | 14.9 | 8.3 | 3.8 | ND | ND |
| Lead | 8.5 | 4.8 | 1.2 | ND | ND |

ND = Not Detected.

J = Value is above the Method Detection Limit, but below the Limit of Quantification.

Note: Shaded entries indicate an exceedance of a daily maximum limit.